

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 713 AND MD 176 IN ANNE ARUNDEL COUNTY. THE WORK IS NECESSITATED BY THE WIDENING OF THE W.B. MD 176 APPROACH TO CREATE A DOUBLE LEFT TURN LANE. VIDEO DETECTION AND A NEW MICRO-LOOP PROBE WILL BE ADDED TO THIS APPROACH. MD 713 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

MD 713 AND MD 176
THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASES FOR N.B. & S.B. MD 713 AND SPLIT PHASING FOR MD 176. THIS OPERATION WILL NOT BE CHANGED.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
1 EA	VIDEO DETECTION CAMERA AND LEAD-IN CABLE
900 LF	5 IN. YELLOW HEAT APPLIED THERMOPLASTIC PAVEMENT MARKINGS
935 LF	5 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKINGS
45 LF	24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKINGS
6 EA	WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING ARROW
1 EA	ADJUST EXISTING HANDHOLE TO GRADE
3 EA	MICRO-LOOP PROBE WITH 1000 FT. LEAD-IN CABLE
LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
★ 1600 LF	12 - PAIR COMMUNICATION CABLE
520 LF	4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
110 LF	4 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
15 LF	1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
2 EA	ELECTRICAL HANDHOLE
1 EA	RELOCATE EXISTING SIGN - MAST ARM MOUNT
1 EA	RELOCATE EXISTING SIGN - GROUND MOUNT
1 EA	R3-SL SIGN (30" X 36") - MAST ARM MOUNT
1 EA	R3-BR SIGN (30" X 36") - MAST ARM MOUNT
1 EA	R3-BB SIGN (30" X 48") - GROUND MOUNT
60 LF	4 IN. X 4 IN. WOOD SIGN SUPPORTS
★ 800 LF	REMOVE AND REINSTALL EXISTING INTERCONNECT CABLE
70 LF	SAWOUT
1150 LF	REMOVE AND REINSTALL EXISTING SIGNAL AND VIDEO CAMERA CABLE

★ THE QUANTITY FOR NEW 12-PAIR COMMUNICATION CABLE IS A CONTINGENT ITEM. THE CONTRACTOR SHOULD ATTEMPT TO DISCONNECT, PULL BACK AND REUSE THE EXISTING CABLE.

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 841-1003

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 841-1013

MR. JOE HORTY
ASSISTANT DISTRICT ENGINEER - UTILITIES
(410) 841-1040

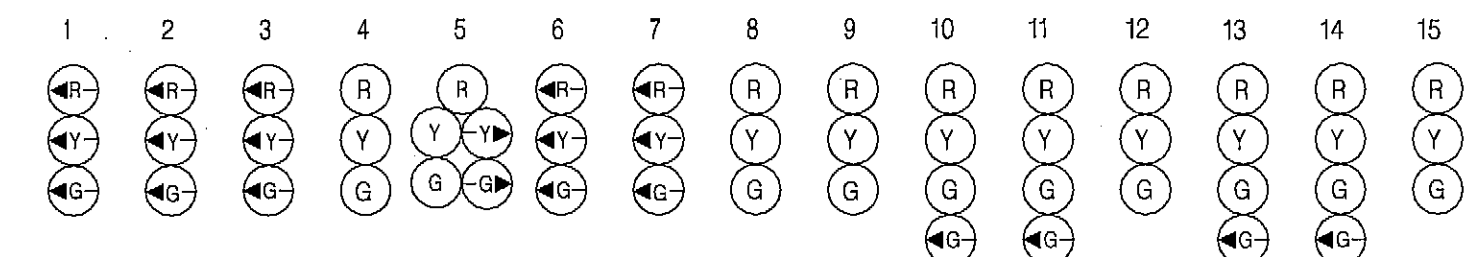
CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

PHASING CHART



PHASE 1 + 6	←R	←R	←R	R	R	←G	←G	G	G	R	R	R	R	R	R	R	R
1 CHANGE	←R	←R	←R	R	R	←Y	←Y	G	G	R	R	R	R	R	R	R	R
PHASE 2 + 5	←G	←G	←G	G	G	←R	←R	R	R	R	R	R	R	R	R	R	R
5 CHANGE	←Y	←Y	←Y	G	G	←R	←R	R	R	R	R	R	R	R	R	R	R
PHASE 2 + 6	←R	←R	←R	G	G	←R	←R	G	G	R	R	R	R	R	R	R	R
2 + 6 CHANGE	←R	←R	←R	Y	Y	←R	←R	Y	Y	R	R	R	R	R	R	R	R
PHASE 3	←R	←R	←R	R	R	←R	←R	R	R	R	R	R	R	R	R	R	R
3 CHANGE	←R	←R	←R	R	R	←Y	←Y	R	R	R	R	R	R	R	R	R	R
PHASE 4	←R	←R	←R	R	R	←R	←R	R	R	R	R	R	R	R	R	R	R
4 CHANGE	←R	←R	←R	R	R	←R	←R	R	R	Y	Y	Y	Y	R	R	R	R
FLASHING OPERATION	FLR	FLR	FLR	FLY	FLY	FLR	FLR	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR	FLR	FLR

CONSTRUCTION DETAILS

- REMOVE NOTED SIGN AND INSTALL VIDEO DETECTION CAMERA, NEW SIGNS AND RELOCATE EXISTING SIGN
- INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
- INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - BORED
- USE EXISTING CONDUIT
- USE EXISTING HANDHOLE
- INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- INSTALL 5 IN. SOLID YELLOW PAVEMENT MARKING
- INSTALL 5 IN. SOLID WHITE PAVEMENT MARKING
- INSTALL 5 IN. SKIP WHITE PAVEMENT MARKING (10 FT. LINE, 30 FT. GAP)
- INSTALL WHITE PAVEMENT MARKING "ARROW" (SEE TABLE)
- INSTALL ELECTRICAL HANDHOLE
- ADJUST EXISTING HANDHOLE TO GRADE
- INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
- INSTALL MICRO LOOP PROBE SET WITH LEAD-IN CABLE
- REMOVE EXISTING SIGN AND SUPPORTS
- RELOCATE EXISTING SIGN AND SUPPORTS
- INSTALL R3-BB SIGN (30" X 48") ON TWO 4" X 4" WOOD SUPPORTS
- REMOVE EXISTING HANDHOLE
- CAP AND ABANDON EXISTING CONDUIT
- INSTALL 5 IN. SKIP WHITE PAVEMENT MARKING (3 FT. LINE, 9 FT. GAP)

NOTES

- DISCONNECT THE EXISTING INTERCONNECT CABLE FROM THE EXISTING CONTROLLER AT MD 713 AND MD 176. PULL CABLE BACK TO THIS POINT. REINSTALL CABLE THROUGH THE NEW CONDUIT AND RECONNECT TO THE CONTROLLER.

TRAFFIC CONCEPTS INC.
325 Gambrills Road
Suite B
Gambrills, MD 21054
(410) 923-7101
FAX (410) 923-6473
EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION PLAN
MD 713 (NEW RIDGE ROAD)/
(ARUNDEL MILLS BLVD.) AND
MD 176 (DORSEY ROAD)

SCALE	NONE	DATE	1-4-10	CONTRACT NO.	BW996M82
DESIGNED BY	T. ZAYDEL	COUNTY	ARUNDEL		
DRAWN BY	T. ZAYDEL	LOGMILE	02071303.05		
CHECKED BY	K. SCHMID	T.I.M.S. NO.	K 068		
F.A.P. NO.	NA	TOD NO.			
DRAWING NO.	TS - 3227C GI	SHEET NO.	2	OF	2